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PTO/SB/08A (08-00)

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Application Number | | Not Yet Assigned |
| | | | | Filing Date | | March 1, 2002 |
| | | | | First Named Inventor | | Shunpei YAMAZAKI et al |
| | | | | Group Art Unit | | 2818 |
| | | | | Examiner Name | | Renee R. Berry |
| Sheet | 1 | of | 2 | Attorney Docket Number | | 740756-2447 |

| U.S. PATENT DOCUMENTS | | | | | | |
|--------------------------------|-----------|----------------------|--------------------------------------|---|---|--|
| Examiner Initials ¹ | Cited No. | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² (if known) | | | |
| BWB | | 5,429,995 | | Nishiyama et al | 07/04/1995 | |
| | | 5,641,581 | | Nishiyama et al | 06/24/1997 | |
| | | 5,821,138 | | Yamazaki et al | 10/13/1998 | |
| | | 4,810,673 | | Freeman | 03/07/1989 | |
| | | 4,894,352 | | Lane et al | 01/16/1990 | |
| | | 4,943,837 | | Konishi et al | 07/24/1990 | |
| | | 5,013,691 | | Lory et al | 05/07/1991 | |
| | | 5,037,766 | | Wang | 08/06/1991 | |
| | | 5,275,977 | | Ostsubo et al | 01/04/1994 | |
| | | 5,403,772 | | Zhang et al | 04/04/1995 | |
| | | 5,866,932 | | Yamazaki et al | 02/02/1999 | |
| | | 5,313,075 | | Zhang et al | 05/17/1994 | |
| | | 4,772,927 | | Saito et al | 09/20/1988 | |
| | | 5,313,076 | | Yamazaki et al | 05/17/1994 | |
| | | 5,837,614 | | Yamazaki | 11/17/1998 | |
| | | 5,288,518 | | Homma | 02/22/1994 | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------------|-----------|-------------------------|---------------------|--------------------------------------|---|---|--|
| Examiner Initials ¹ | Cited No. | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | | |
| BWB | | JP | 01-238024 | | | 09/22/1989 | Eng. Abst. |
| | | JP | 03-036767 | | | 02/18/1991 | Eng. Abst. |
| | | JP | 03-268429 | | | 11/29/1991 | Eng. Abst. |
| | | JP | 03-289140 | | | 12/19/1991 | Eng. Abst. |
| | | JP | 04-360533 | | | 12/14/1992 | Eng. Abst. |
| | | JP | 05-267480 | | | 10/15/1993 | Eng. Abst. |
| | | JP | 06-053503 | | | 02/25/1994 | Eng. Abst. |
| | | JP | 06-287755 | | | 10/11/1994 | Eng. Abst. |
| | | JP | 5-175132 | | | 07/13/1993 | |
| | | JP | 61-63020 | | | 04/01/1986 | |
| BWB | | JP | 01-268064 | | | 10/25/1989 | English Trans. |
| | | JP | 07-074245 | | | 03/17/1995 | Eng. Abst. |

| | | | |
|--------------------|------------|-----------------|---------|
| Examiner Signature | <i>BWB</i> | Date Considered | 1/18/03 |
|--------------------|------------|-----------------|---------|

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| | | | | First Named Inventor | Shunpei YAMAZAKI et al |
| | | | | Group Art Unit | 2818 |
| | | | | Examiner Name | Renee R. Berry |
| Sheet | 2 | of | 2 | Attorney Docket Number | 740756-2447 |
| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | | | |
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T ² |
| BWB | | Van de Meulen et al., "Effects of HCl and Cl ₂ Additions on Silicon Oxidation Kinetics", pp. 371-389, 1974, Journal of Electronics Materials, Vol. 3, No. 2 | | | |
| | | Wright et al., "The Effects of Fluorine in Silicon Dioxide Gate Dielectrics", pp. 879-889, May 1989, IEE Transactions on Electron Devices, vol. 36, No.5 | | | |
| | | Nishioka et al., "Radiation Hardened Micron and Submicron Mosfets Containing Fluorinated Oxides", pp. 2116-2123, December 1989, IEEE Transactions on Nuclear Science Vol. 36, No. 6 | | | |
| | | Wright et al., "Hot-Electron Immunity of SiO ₂ Dielectrics with Fluorine Incorporation", pp. 347-348, August 1989, IEEE Electron Device Letters, Vol. 10, No.8 | | | |
| | | Baker et al., "The Influence of Fluorine on Threshold Voltage Instabilities in P+ Polysilicon Gated P-Channel Mosfets", pp. 443-446, 1989, IDEM 17.11 | | | |
| BWB | | MacWilliams et al., "Improved Hot-Carrier Resistenace with Fluorinated Gate Oxides", pp. 3-5, January 1990, IEEE Electron Device Letters, Vol. 11, No. 1 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Examiner Signature | BWB | | | Date Considered | 1/18/03 |

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INFORMATION DISCLOSURE STATEMENT

Applicants: Shunpei YAMAZAKI et al.

Filing Date: March 01, 2002

Group Art Unit: 2818

U.S. PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date (if appropriate) |
|---------------------|-----------------|------------|-----------------|-------|----------|---------------------------------|
| BWB | 5,585,949 | 12/17/1996 | Yamazaki et al. | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Country | Class | Subclass | Translation | |
|---------------------|-----------------|------------|---------|-------|----------|-------------|----|
| | | | | | | Yes | No |
| BWB | 01-238024 | 09/22/1989 | JP | | | Full Eng | |
| | 03-036767 | 02/18/1991 | JP | | | Full Eng | |
| | 04-295826 | 10/20/1992 | JP | | | Eng Abst | |
| AMB | 05-267480 | 10/15/1993 | JP | | | Full Eng | |

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